

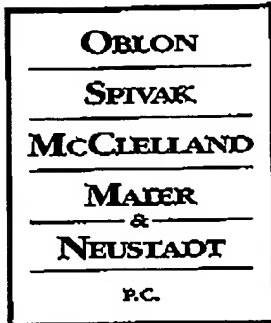
MAY. 17. 2005 1:41PM

OBLON, SPIVAK

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MAY 17 2005



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Alexandria, VA 22313-1450  
(703) 872-9306

on Date: May 17, 2005

Signature: 

Bradley D. Lytle

Total number of pages including this page: 13

OSMM&N File No. 242899US8

Serial No. 10/062,189

In the matter of the Application of: Shunichi MATSUSHITA, et al.

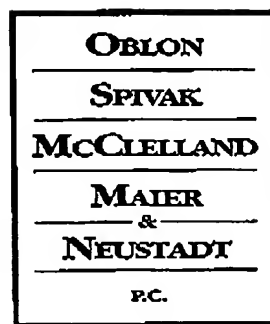
For: PUMP LIGHT SOURCE DEVICE FOR OPTICAL RAMAN AMPLIFICATION AND OPTICAL  
RAMAN AMPLIFICATION SYSTEM USING THE SAME

Due Date: N/A

- ☒ Dep. Acct. Order Form
- ☒ Transmittal Cover
- ☒ Letter
- ☒ Japanese Language Application Proposal
- ☒ Two pages of Partial Translation of the relevant portions of the Application Proposal
- ☒ Copy of PAIR Image File Wrapper Page 1
- ☒ Revocation of Power of Attorney (3 pages)

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ATTORNEYS AT LAW

Docket No.: 242899US8

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

RE: Application Serial No.: 10/062,189

Applicants: Shunichi MATSUSHITA, et al.

Filing Date: January 30, 2002

For: PUMP LIGHT SOURCE DEVICE FOR OPTICAL  
RAMAN AMPLIFICATION AND OPTICAL RAMAN  
AMPLIFICATION SYSTEM USING THE SAME

Group Art Unit: 3663

Examiner: Hughes, D.

SIR:

Attached hereto for filing are the following papers:

LETTER with the following attachments:

Japanese Language Application Proposal

Two pages of Partial Translation of the relevant portions of the Application Proposal

Copy of PAIR Image File Wrapper Page 1 for Serial No. 10/062,189

Revocation of Power of Attorney (3 pages)

We have not included a check as we do not believe any fee is required. In the event there are any Patent Office charges for filing the above-noted documents, including any fees required under 37 C.F.R. 1.136 for any necessary Extension of Time to make the filing of the attached documents timely, please charge or credit the difference to our Deposit Account No. 15-0030. Further, if these papers are not considered timely filed, then a petition is hereby made under 37 C.F.R. 1.136 for the necessary extension of time. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

A handwritten signature in dark ink, appearing to read 'Bradley D. Lytle', is written over a horizontal line.

Bradley D. Lytle

Registration No. 40,073

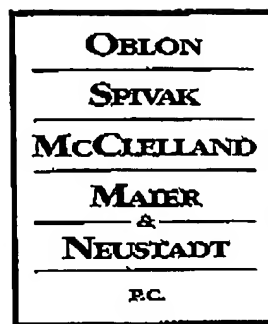
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ATTORNEYS AT LAW

Docket No.: 242899US8

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

RE: Application Serial No.: 10/062,189

Applicants: Shunichi MATSUSHITA, et al.

Filing Date: January 30, 2002

For: PUMP LIGHT SOURCE DEVICE FOR OPTICAL  
RAMAN AMPLIFICATION AND OPTICAL RAMAN  
AMPLIFICATION SYSTEM USING THE SAME

Group Art Unit: 3663

Examiner: Hughes, D.

SIR:

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**LETTER with the following attachments:****Japanese Language Application Proposal****Two pages of Partial Translation of the relevant portions of the Application Proposal****Copy of PAIR Image File Wrapper Page 1 for Serial No. 10/062,189****Revocation of Power of Attorney (3 pages)**

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Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.  
Bradley D. Lytle

Registration No. 40,073

Customer Number

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(703) 413-2220 (fax)1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314 U.S.A.  
TELEPHONE: 703-413-3000 FACSIMILE: 703-413-2220 WWW.OBLON.COM

MAY 17 2005

DOCKET NO: 242899US8

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF :  
SHUNICHI MATSUSHITA, ET AL. : EXAMINER: HUGHES, D.  
SERIAL NO: 10/062,189 :  
FILED: JANUARY 30, 2002 : GROUP ART UNIT: 3663  
FOR: PUMP LIGHT SOURCE DEVICE :  
FOR OPTICAL RAMAN  
AMPLIFICATION AND OPTICAL  
RAMAN AMPLIFICATION SYSTEM  
USING THE SAME

LETTER

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Supplemental to the Amendment filed October 13, 2004, the undersigned respectfully submits with this Letter (1) the attached Japanese language application proposal, and (2) two pages of partial translation of the relevant portions of the application proposal.

The undersigned provides this information in light of the comments made at page 2 of the outstanding Office Action, referring to the "lack of translation", of the application proposal, and the follow-on discussion on May 9, 2005, with Examiner Hughes regarding the same topic. During the conversation, the Examiner confirmed that she was not aware of the two pages of translation of the application proposal, and therefore did not consider them. Applicants respectfully request that the Examiner consider the translation at this time.

Also during the conversation, the undersigned and the Examiner recognized that the image file wrapper for this application apparently misidentified the Japanese language

Application No. 10/062,189  
Supplemental Letter to Amendment filed October 13, 2004

application proposal and partial translation thereof as "NPL documents" listed as "prior art". Of course this is not the case, but rather evidence of the earlier conception and reduction to practice of the claimed invention. For the Examiner's convenience, a print out is provided of the first page of the image file wrapper index for the subject application, identifying the "NPL documents". The NPL documents are identified by handwritten asterisks on the image file wrapper index.

Accordingly, the application proposal as described in the corresponding description in the Amendment filed October 13, 2004 is evidence that is evidence that Ye's effective date is after the date of Applicants' invention. Therefore, Applicants believe that the present application is in condition for formal allowance. Therefore, it is respectfully submitted that the invention defined by Claims 2, 3, and 5-12, is patentably distinguishing over the prior art. The present application is therefore believed to be in condition for formal allowance, and an early and favorable reconsideration of this application is therefore requested.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.



Bradley D. Lytle  
Attorney of Record  
Registration No. 40,073

Customer Number  
**22850**

Tel: (703) 413-3000  
Fax: (703) 413-2220  
(OSMMN 06/04)

DOCUMENT3

001-77620

(A)

(太線枠内記入のこと)

特許

発明の詳図表(A)添付厳守

受付番号	A0005717
日付	平成 17 年 7 月 14 日

実用新案  
意匠

# 出願提案書

提案番号	CIAG00095
日付	平成 17 年 11 月 14 日

発明・考案・意匠にかかる物品の名称		Raman光増幅器	
発明・考案・意匠の要旨(改良点)		Raman光増幅器用励起光源の非偏光化装置の新規開発	
用途	Raman光増幅器用励起光源		
発明・考案・意匠の現状	①工業化(中 完了) ②実 験(中 完了) ③試 作(中 完了) ④発想のみ		
実施部門(予定/予想を含む)	自部門	他部門( )	
社外発表予定	有	① 発表先	
	無	② 原稿提出日 年 月 日 ③ 発表形態: (a)仕様書提出 (b)資料提出 (c)外注 (d)論文発表 (e)その他( )	
社内分属	重点テーマ		
外国出願の必要性 ・あり ・なし ・その他( ) 出願希望国(米 加 独 仏) (外国出願の必要ありの場合、早急に別途外国出願依頼書を提出下さい。)			
国内 ①利用する ②利用しない ③未定 優先権 利用する場合は関連する願書。 特許 料 用 (特許番号等を願書欄へ記入する。) 他社と 共同研究等の契約(有・無) の関係 共有契約(有・無) 共同出願の要(有・無) 相手方( ) 関 ① 当社最近似発明の提案番号又は願書 係 無・有( ) 料 ② 公知の特許・文献(コピー添付)等 無・有( ) 備 ③ この出願について打ち合わせ又は、関連既出願を担当した 知 知的財産部担当者名( ) 考 緊急出願希望の場合はその理由 明細書は知財部に提出済			

## 譲渡証書

(実施に発明、考案、創作をした者のみが各自署名・捺印のこと。ペン又はボールペンで記入のこと。)

譲受人 東京都千代田区丸の内2丁目6番1号 代表者 古河 潤之助 殿  
古河電気工業株式会社  
この発明・考案・意匠の創作に関して日本及び諸外国で特許・実用新案登録・意匠登録を受ける権利を  
貴社に譲渡したことに相違ありません。 平成 年 月 日 (譲渡日を記入して下さい。)

発 明 者・考 案 者 、 意 匠 創 作 者	印	社員番号	事業所	事業部/研究所	部・課	内線番号
明 細 書 者 (7/14)	(捺印)	990331	千葉	ファイナル フォーミュラ 研究所	WP4-4 光伝送部	2886
松 下 俊 一	(捺印)	970081	千葉	ファイナル フォーミュラ 研究所	WP4-4 光伝送部	2883
江 森 芳 博	(捺印)					
同 上	(7/14)					
同 上	(7/14)					

所 属 課 長	所 属 部 長	知 財 総 括	所 管 担 当 者	特 許 推 進 課 長	担 当 者	外 注 先 外 注 日	発 明 数	分 類
WP-T 12.11.08 坂野	12.11.9	12.11.14 坂野	12.11.14 国原	知財 12.11.18 若原	元中	/	1	F500

注 (1) 明細書上の発明・考案・意匠の創作であるときは譲渡証書に各自が署名・捺印して下さい。  
(2) 明細書上の発明・考案・意匠の創作でないときでも会社に譲渡する意志のあるものは、譲渡証書に各自が署名・捺印して下さい。  
(3) その他不明な点は、知的財産部に相談下さい。

(2000.9.11)  
(1999.3.30改定版)

## 発明の評価表 (A) (所属長記入)



提案NO.

発明の名称: Raman 光増幅器

記入者

## A. 出願の目的と発明の特徴

本発明の出願の目的 (必要性・緊要性の位置づけ) を具体的に記載して下さい。(特にアイデアのみで実施せずに出願するものについてはその理由を明確にして下さい。また、その他に、他社状況、業界事情、対象製品の海外展開などの特記事項があれば、記入して下さい。)

ラマン光増幅器の市場が北米を中心に急速に立ち上がりつつある。本発明は、ラマン光増幅器の励起光源に関するもので、励起光を非偏光化する画期的な手段である。本発明を用いることで、励起光源に用いる LD の個数を削減することが可能となりコスト削減につながる。本発明はラマン市場を独占する上で重要な技術となるため特許化が必要である。

本発明の特徴を具体的に記載して下さい。

本発明では、偏波合成と非偏光化手段が一体化になった光合波器を考案した。これまで、ラマン光増幅器用励起光源の非偏光化は LD1 台 1 台の出力端に非偏光化装置を接続していた。本発明の光合波器は 2 台の LD を合波し非偏光化するので作業工程が減る。また、非偏光化装置が LD2 台につき 1 台ですむため、コスト削減につながる。

## B. 発明の予見性 (事業との関連性) (該当箇所を○印をつけて下さい。)

- (1) 発明と当社製品技術との関連性
- (1) 現在の製品技術に関連 ☒ (2) 新規予定事業製品の技術に関連 ☐ (4, 5, 6 の場合: 関連製品名) ☐ A 関連性なし
- (2) 発明と関係する研究・開発テーマ
- テーマ名 ラマン光増幅器 ☒ B 無
- (3) 先行技術調査実施状況 (原則として提案前に先行技術調査を済ませ、公知資料を添付して下さい。)
- (1) 調査済 ☒ (2) 未調査 ☐ (3) 部分調査 ☐ (4) 調査済 ☐ (5) 未調査 ☐ (6) 部分調査 ☐ (7) その他 ☐
- (4) 市場規模: 本発明を直接使用する製品当社売上予見 (ノ年)
- (1) 10億円より大きい ☒ (2) 5億円~10億円 ☐ (3) 1億円~5億円 ☐ (4) 1千万円~1億円 ☐ (5) 1千万円未満 ☐

## C. 発明の競争性 (他社との関係性) (該当箇所を○印をつけて下さい。)

- I 特許性 (他社の先行技術に勝てるか)
10. 特許性十分 (基本発明は先行技術に比べて進歩性十分)
- (1) 特許性はまず十分 (公知技術と比べて差があり、進歩性がある)
5. 特許性五分五分 (公知技術と類似点があり、進歩性に多少不安がある)
2. 特許性低い (公知技術と類似点があり、進歩性に多少不安がある)
1. 特許性ない (公知技術と実質同一であり、新規性がないに等しい)
- II 実施可能性 (使用される技術が、実施は困難でないか)
10. 実施決定済み (含む実施中): 製造予定時期 年 月
- (1) 製品を試作済で、実施可能性大
4. 実施するか未定だが、自社の実施可能性大
2. 実施するか未定で、自社の実施可能性中
1. 自社の実施可能性小
- III 他社との関係 (他社の市場参入を阻止できるか)
10. 他社参入阻害大 (他社は本発明を使用せざるを得ない)
- (1) 他社参入阻害大 (他社回避困難で本発明の使用可能性大)
4. 他社参入阻害中 (他社回避やや困難で本発明の使用可能性中)
2. 他社参入阻害小 (他社回避容易で本発明の使用可能性小)
1. 他社参入阻害なし (他社回避極めて容易で本発明の使用可能性小)

## IV 侵害の発見・被害の判別 (権利行使できるか)

- (1) 侵害品入手容易で、調べれば侵害の有無が判別できる
7. 侵害品入手容易で、調べれば侵害の有無が判別できる
4. 侵害品以外から侵害の有無が判別できる
2. 侵害品入手困難又はそれ以外からも侵害の有無の判別が難しい
1. 侵害の有無の判別は全くできない

評価	特許性	事業性 (II + III + IV)					総合評価点	知照区分
		I	II	III	IV	合計点		
発明部門	8	7	7	10	24	3.2	A	
特許部門	8	7	7	10	24	3.2	A	

(1998.01.05改訂)

知財  
13.1.22  
A00577

Comment:  
Number is assigned when  
IP division received.

Comment:  
Number is assigned when  
proposal is submitted.

Receipt No.	A00577
Date	Nov.14, 2000

Application Proposal

Proposal No.	CAG00095
Date	Nov.14, 2000

Title	Optical Raman Amplifier		
summary	Development of depolarize devices used in a pump source for optical Raman amplifier.		
use	A pump source for optical Raman amplifier		

assignment							
Assignee							
as si gn or	inventor		seal	Number of employee	place	lab	section phone
	writer	Shun-ichi Matsushita		990331	Chiba	Fitel photonics lab.	2886
	Other inventor	Yoshihiro Emori		970081	Chiba	Fitel photonics lab.	2883

prop oser	manager	General manager		
	Nov.08, 2000 Sakano	Nov.09, 2000	Nov.14, 2000 Iino	Nov.14, 2000 Kunifuji

IP divi sion	manager	Person in charge	Order to outside date	Number of invention
	Nov.16, 2000 Sugawara	—	In-house	1



Sheet (A) for evaluation of inventionTitle: Raman optical amplifier

WP

Nov.09,20000

Ninomiya

A. Object of filing an application and aspect of the inventionObject of filing an application:

A market of optical Raman amplifier has been increased mainly in the north America. The present invention which relates to a pump source for optical Raman amplifier is an innovative way to depolarize pump lights. Employment of the present invention makes possible to reduce the number of LD for pump source and introduces cost reduction. It is necessary to protect this technology by patent in order to increase our share of the Raman amplifier market.

An aspect of the invention:

The present invention is descriptive of the invention of optical coupling device which combines input lights maintaining their polarizations and depolarize output lights respectively. Depolarized pump light sources have consisted of depolarized laser diodes where a depolarizer is connected with an output of a laser diode so far. The invention makes it possible to depolarize two output lights from laser diodes combined by the coupler simultaneously so that it allows for reduction the number of process of operation and its cost.

B. Background of invention (relationship to business)(1)Relation between this invention and our products

Relates to current products strongly

(2) Research/Development theme related to the invention  
theme: Raman optical amplifier(3) Status of research of prior arts

Done (by FTR)

(4) Size of a market

more than 1000000000 yen

C. Evaluation of invention

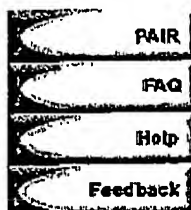
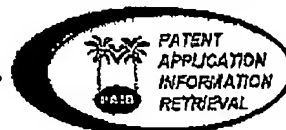
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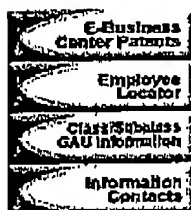


Image File Wrapper for Application No.:10/062,189			NET
This application is officially maintained in electronic form. To View: Click the desired Document Description (the desired document(s) and click Download.			
Mail Room Date	Document Description	Document Category	
01/14/2005	Final Rejection	PROSECUTION	
01/14/2005	Search information including classification, databases and other search related notes	PROSECUTION	
01/14/2005	Index of Claims	PROSECUTION	
10/13/2004	NPL Documents	PRIOR ART	
10/13/2004	Applicant Arguments or Remarks Made in an Amendment	PROSECUTION	
10/13/2004	Claims	PROSECUTION	
10/13/2004	Amendment - After Non-Final Rejection	PROSECUTION	
10/13/2004	Fee Worksheet (PTO-875)	PROSECUTION	
10/13/2004	Extension of Time	PROSECUTION	
10/13/2004	Miscellaneous Incoming Letter	PROSECUTION	
04/13/2004	List of References cited by applicant and considered by examiner	PRIOR ART	
04/13/2004	List of references cited by examiner	PRIOR ART	
04/13/2004	Non-Final Rejection	PROSECUTION	
04/02/2004	Examiner's search strategy and results	PROSECUTION	
04/02/2004	Examiner's search strategy and results	PROSECUTION	
12/17/2003	NPL Documents	PROSECUTION	
12/17/2003	Information Disclosure Statement (IDS) Filed	PROSECUTION	
12/17/2003	Extension of Time	PROSECUTION	
12/17/2003	Applicant Arguments or Remarks Made in an Amendment	PROSECUTION	
12/17/2003	Claims	PROSECUTION	
12/17/2003	Amendment - After Non-Final Rejection	PROSECUTION	
12/17/2003	Miscellaneous Incoming Letter	PROSECUTION	
12/17/2003	NPL Documents	PROSECUTION	

[http://pair-direct.uspto.gov/cgi-bin/final/pair\\_efw.pl](http://pair-direct.uspto.gov/cgi-bin/final/pair_efw.pl)

5/9/2005

## PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

REVOCATION OF POWER OF ATTORNEY

Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Furukawa Electric Co., Ltd., hereby revokes any previous powers of attorney in the applications listed in the attached chart, namely that of Khobbe, Martens, Olson & Bear, LLP, including all of the individual members of the firm, 2040 Main Street, Fourteenth Floor, Irvine, California 92614, and requests that all future communications with respect thereto from the Patent and Trademark Office be forwarded to

Customer No. 22,850  
Bradley Lytle  
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, PC  
1940 Duke Street  
Alexandria, VA 22314

Dated: September 11, 2003

By: [Signature]  
Name: Hiroshi ISHIMURA  
Title: President

SDOC\INTRA\TRA-8057.DOC  
090203

SERIAL NO	FILING DATE
09/918,018	July 30, 2001
10/214,787	August 6, 2002
10/217,227	August 9, 2002
09/871,586	May 30, 2001
10/094,733	March 8, 2002
09/921,511	August 1, 2001
09/886,411	June 20, 2001
10/040,957	January 2, 2002
09/767,231	January 22, 2001
10/176,169	June 18, 2002
09/924,493	August 6, 2001
09/961,686	September 21, 2001
09/981,778	October 17, 2001
10/001,124	November 30, 2001
10/377,141	February 26, 2003
10/109,598	March 26, 2002
10/125,299	April 16, 2002
10/057,733	January 23, 2002
10/047,459	January 24, 2002
10/005,191	December 4, 2001
10/112,096	March 27, 2002
10/056,925	January 24, 2002
10/187,133	June 28, 2002
10/186,924	June 28, 2002
09/638,942	August 14, 2000
09/938,469	August 21, 2001
10/041,685	October 19, 2001
10/055,023	January 22, 2002
10/062,189	January 30, 2002
10/099,855	March 14, 2002
09/910,465	July 20, 2001
09/957,435	September 19, 2001
09/960,100	September 20, 2001
10/053,231	January 17, 2002
09/997,651	November 29, 2001
10/188,649	July 1, 2002
10/144,100	May 9, 2002
10/223,190	August 16, 2002
10/270,708	October 11, 2002
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SERIAL NO	FILING DATE
09/965,665	September 25, 2001
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10/186,457	June 28, 2002
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